545i

4x5 Film Holder

Introduction

The Polaroid Model 545i 4x5 Film Holder enables you to use Polaroid 4x5 sheet films in most 4x5 field or view cameras that are equipped with spring backs, lock backs and similar backs, without making any alteration to the camera or focusing system. It also can be used with instruments (such as microscope and oscilloscope cameras) equipped with similar backs, and with the Polaroid MP-4+ and MP-4 cameras, the CU-5 4x5 camera (88-45) and Polaroid Miniportrait 4x5 cameras.

Important: When the holder is not in use, leave the control arm at **P** (as shown in illustration 1).

The numbers throughout the text refer to the illustrations at the end of the book.

Parts (Illustration 1)

a Focal plane
b Steel processing rollers
c Rubber light seal roller
d Hinged roller cover
e Roller hooks
f Film slot
g Control arm
h Film release lever
i Instruction label

Free and rapid technical assistance: Call toll-free, Mon.-Fri., 8 AM to 8 PM (Eastern Time). From anywhere in the U.S.A. call I-800-225-1618.

Polaroid instant 4x5 sheet films

The actual image area of these films is approx. 3 1/2 x 4 1/2 in. (9 x 11.5cm), and is off-center about 1/8 in. (3mm) toward the thick end of the holder. This area is marked on the ground glasses for the MP 4+ and MP-4 cameras, but may not correspond precisely with the area marked on other ground glasses. For extreme accuracy in composition, make test shots and mark the exact area on your ground glass.

Type 52	panchromatic black and white film for general-purpose photography.
Type 53	panchromatic black and white coaterless film for general-purpose photography.
Polapan PRO 100 (Type 54)	panchromatic black and white coaterless film for professional photographic proofing.
Type 55 P/N	panchromatic black and white film that produces both a positive print and a recoverable negative.
Type 57	high-speed panchromatic black and white film.
Type 59	Polacolor ER (Extended Range) color print film, balanced for daylight and electronic flash (5500°K).
Polacolor PRO 64 Tungsten	color print film balanced for longer exposure times with tungsten/halogen light sources (3200°K)
Polapan 400	panchromatic black and white coaterless film for general-purpose photography.
Polacolor PRO 100	color print film for studio and general-purpose photography; balanced for daylight and electronic flash (5500°K)

Attach the holder to the camera

Before use, open the roller cover and inspect the processing rollers. Clean them if necessary (see ***Cleaning the rollers).*** Slide the holder into the back of the camera, just as you would a standard film holder. If your camera has slide locks, use them in addition to the spring back; the locks fit into slots on the sides of the holder.

Load the film

1 Move the control arm to **L (2)**.
2 Hold the envelope as shown **(3)** and insert the cap end into the holder. Be sure that the side marked THIS SIDE TOWARD LENS faces the lens. Do not hold the envelope by the end when first inserting it into the holder, as you may buckle the envelope (4) and damage the film.
Do not press on the area marked DO NOT PRESS HERE, where the pod of developer chemicals is located.
3 Push the envelope in halfway **(5)**, then shift your grip to the end, and push it in the rest of the way **(6).** When the envelope is fully inserted the tabs **(6-j)** will be visible in the recess along the edge of the film holder.

Make the exposure

1 Gently withdraw the envelope from the holder until it comes to a firm stop **(7)**. It will come out almost 6 inches (15cm), then stop. The negative will remain inside the holder, ready for exposure.
To prevent possible light leak, the envelope should not be removed for longer than necessary. If outdoors, protect the envelope from bright sunlight and also from bending in the wind.
2 Lightly run your thumb and forefinger over the area marked DO NOT PRESS HERE **(8)**. It should be perfectly flat and smooth. If you can feel the pod, the negative was withdrawn accidentally with the envelope. Push the envelope in again, withdraw it, and check again.

3 Make the exposure. The recommended exposure meter setting is printed on the film envelope.
4 Push the envelope all the way in **(9)**. Use moderate pressure, but don't force it. If the envelope will not slide in all the way, withdraw it slightly and try again.

The exposed film is now ready to be processed.

Processing Polaroid instant films

1 Move the control arm to P (10).
2 Grip the envelope firmly, and **pull** it straight, all the way out of the holder **(11).** Pull smoothly, at medium speed, without slowing down or stopping. You will feel a slight resistance when the metal cap reaches the rollers, but continue pulling without hesitation. The rollers will separate to allow the cap to pass through.
3 Wait the recommended processing time. The film instructions contain full details. Temperature affects processing time; at lower temperatures, the time must be extended.
4 Remove the picture from the envelope: Grip both tabs with your thumbs as shown **(12-k)**. Roll both flaps back slightly. Using moderate pressure, tear the envelope open all the way down to the metal cap **(13)**. With your left thumb hold down the negative and thin paper mask, and with your right hand quickly lift off the print **(14)**. It will come right out of the envelope.

With the exception of Type 55P/N film*, the negative serves no further purpose. Discard it with the envelope.

* *The Type 59 negative is used for Image Transfer.*

Avoid contact with the chemicals that remain on the negative. See *Caution* notice.

Type 55P/N film only: Use your left thumb to hold down the negative. With your right hand, quickly peel away the print and thin paper mask (**15**). Pull hard, and the print and mask will separate completely from the negtive section and cap. Remove the mask from the print and discard the mask.

Complete instructions on removing the negative from the envelope and preparing it for enlargement are in the film instructions.

To remove instant film for later processing

After exposure, reinsert the envelope; push it in very firmly to ensure that it engages the metal cap at the end of the negative. Do not move the control arm to P. Leave it at L.

Remove the film holder from the camera. Depress the film release lever R **(16-l)**. Keep the lever depressed throughout the 3 following procedure.

3 Hold the film holder in one hand with the opening in the film plane facing you. With the thumb of the other hand, gently push the film 4 envelope out as shown **(17)** until the metal cap is visible. Then grasp the end of the envelope and pull it out.

To process the film, carefully reinsert the envelope into the film holder as when first loading, move the control arm to **P**, and 5 process it as described above.

Cleaning the rollers

Dirt on the two steel processing rollers can cause repeated spots on the print and poor colors. Check regularly to see that the rollers are clean and free of foreign matter.

1 Move the control arm to **L**.

2 Grip the hinged roller cover as shown **(18)** and pull upward to open the cover.

Disengage the hooks **(19-m)** at the ends of the rollers. The top roller will swing up to permit easy cleaning of the entire assembly **(20).**

4 Clean the rollers with a soft, lint-free cloth, dampened with water if necessary. Rotate the rollers as you clean and inspect them. Also clean the rubber light seal roller. Never scrape the rollers with anything metallic, nor with your fingernail.

5 Replace the top roller, engage the hooks, then snap the cover closed.

Possible picture problems

No exposure: **A completely black** picture indicates that no light reached the negative. Check that your equipment is functioning (shutter, flash sync, etc.). This also can be caused by failure to insert the film envelope all the way into the holder when loading the film; failure to withdraw the envelope before exposing the film; or failure of the holder to catch the metal cap when the envelope was inserted.
Check the film loading instructions. If this trouble occurs frequently, check the film holder for possible malfunction.
Black edge: Failure to withdraw the protective envelope fully before making an exposure will produce a black strip along the edge of the picture. Always withdraw the envelope as far as possible before exposing the film.

Missing corners: With black and white film, this can be caused by pulling too fast; with color film it can be caused by pulling either too fast or too slowly. Pull straight, at medium speed, without hesitation.

Spots: Deposits of dirt or foreign matter on the steel rollers will cause evenly spaced spots or marks across the length of the picture. Inspect and clean the rollers regularly (see Cleaning the rollers).

Streaks: If your pulling motion is uneven or jerky when removing the film envelope, the rollers will leave impressions across the picture in the form of vertical streaks. Always pull smoothly, without hesitation.

Mechanical problems

Detached envelope: If the film is loaded backwards, the envelope will detach completely when withdrawn for exposure. To gain access to the negative (which remains inside the holder), open the hinged cover and disengage the rollers just as you would for cleaning. Move the control arm to **P** and withdraw the negative by pulling the negative tab.

Jammed metal cap: If the negative (and metal cap) cannot be removed from the holder as described above, you can disassemble the holder as follows:
1 Move the control lever to **L**.
2 Insert a small flat-head screw-driver into the slot below the side clip **(21)**, and twist it to pry off the clip **(22)**. Remove both side clips.
3 Tilt the back panel up, then remove it from the film holder **(23).** Remove the jammed cap and negative.

4 To replace the back panel, insert the end of the panel under the lip of the roller cover **(24-n)**, then lower the panel into position.

5 Hold the back panel in position, and replace the side clips **(25)**. Metal cap and envelope misaligned: If mishandled, the envelope and the metal cap may become misaligned **(26)**. If the cap and tape on the back of the envelope are not parallel, tap the length of the cap lightly against a flat, solid surface.

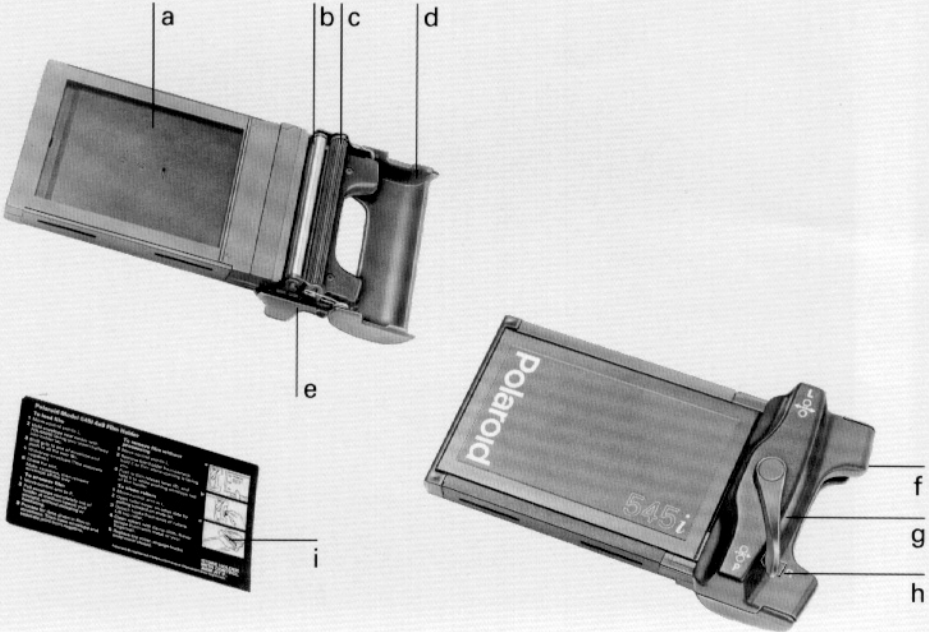
Warranty

Your Polaroid Model 545i Film Holder has been thoroughly tested and inspected before shipment. All parts are guaranteed against defects in materials and workmanship for one full year from the date of original purchase. During this period, any such defects will be remedied by Polaroid Corporation without charge, except for transportation costs.

Damage resulting from normal wear, mishandling or accident will be promptly repaired at a reasonable charge. To make returns, pack the holder carefully in its original shipping carton or other sturdy container with plenty of padding and ship it prepaid to the nearest Polaroid Office.

Caution

The Polaroid instant film process uses a caustic paste. Avoid contact with skin, eyes and mouth and keep away from children and animals. **If you get some paste on your skin, wipe it off immediately and wash with water to avoid an alkali burn.** If eye or mouth contact occurs, quickly wash the area with plenty of water and see a doctor. Keep discarded materials away from children, animals, clothing and furniture.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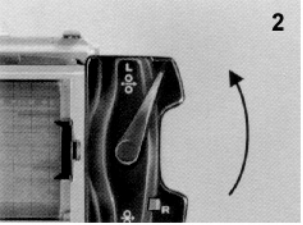
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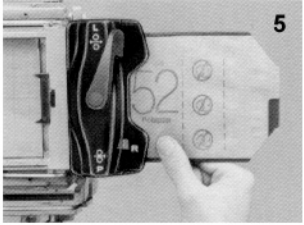
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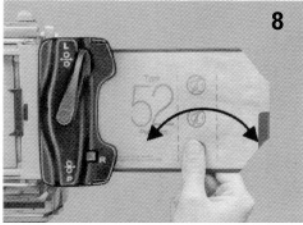
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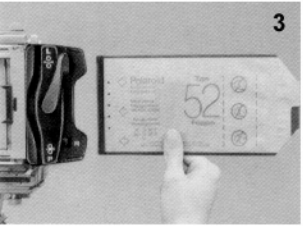
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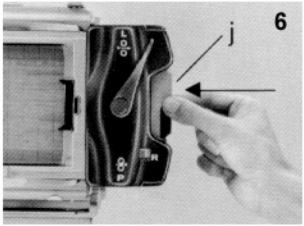
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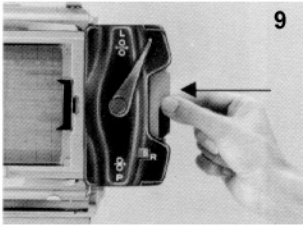
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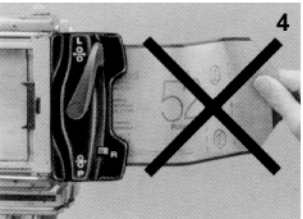
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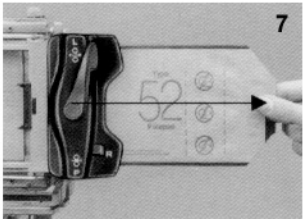
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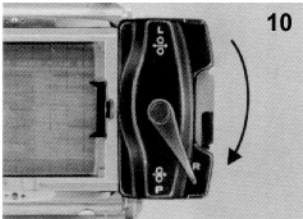
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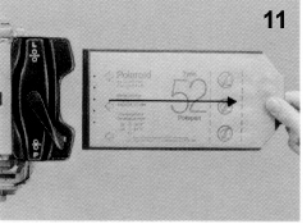
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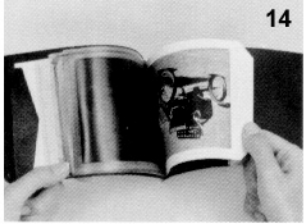
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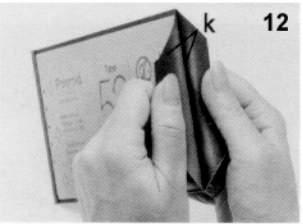
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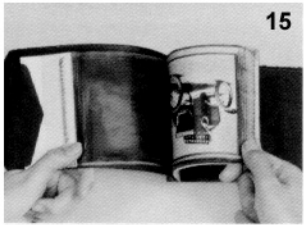
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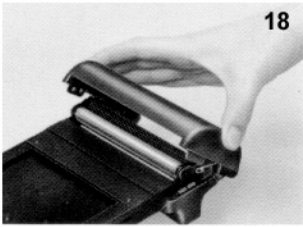
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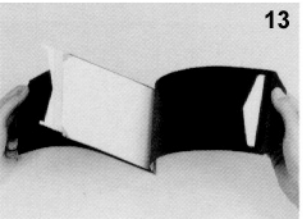
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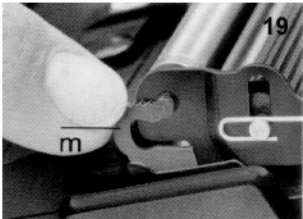
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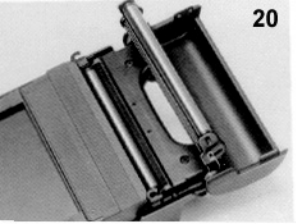

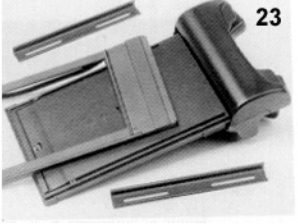

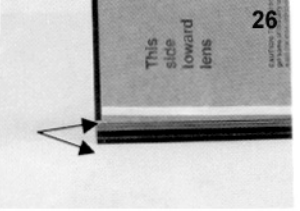

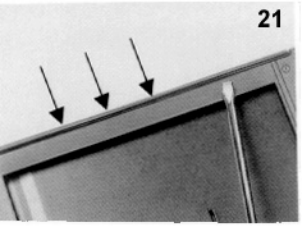

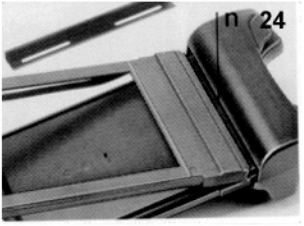

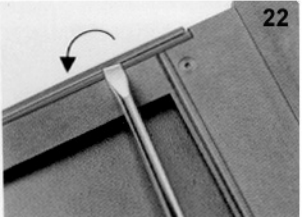

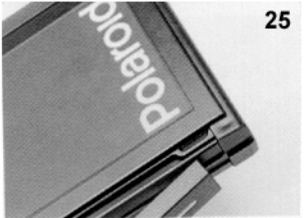

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